

Sant Dnyaneshwar Shikshan Sanstha's

**Annasaheb Dange College of Engineering and Technology, Ashta**

(An Autonomous Institute affiliated to Shivaji University, Kolhapur)

**Department of Basic Sciences**

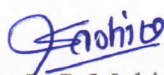
**4<sup>th</sup> Meeting, Board of Studies**

**On**

**13<sup>th</sup> November 2021**

**Agenda of Meeting**

1. Welcome BOS Members.
2. Review of previous meetings.
3. Discussion on 0<sup>th</sup> revision of curriculum for Artificial Intelligence and Data Science and Computer Science and Engineering (Internet of Things, Cyber Security including Block Chain Technology)
4. Finalization of revised curriculum of Applied Mathematics I and II, Physics, Chemistry and Professional Communication for all programmes.
5. Discussion on mode of assessment for ISE I and ISE II of all programmes.
6. Discussion on nature of question paper and format of question paper for MSE and ESE.
7. Any other points for discussion with permission of chairperson.



Prof. Mrs. S. S. Mohite



Prof. S. S. Mohite  
**HOD**  
**Department of Basic Science**  
**Annasaheb Dange College of**  
**Engineering & Technology, Ashta.**



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Date 13/11/2021

### 4<sup>th</sup> Board of Studies Meeting

BoS Meeting is conducted for curriculum of new programmes:

- 1) Artificial Intelligence and Data Science
- 2) Computer Science and Engineering (Internet of Things, Cyber Security including Block Chain Technology)

on 13/11/2021 at 10.00 am in the presence of

- 1) Dr. Bharati Patil
- 2) Mr. Prashant P. Patil
- 3) Dr. Dilip B. Unde
- 4) Dr. N.V. Nalawade

Curriculum of following courses were discussed in detail

1. Applied Physics
2. Applied Chemistry
3. Applied Mathematics- I
4. Applied Mathematics- II
5. Professional Communication

#### 1. Applied Physics

BoS member of Physics Dr. Bharati Patil suggested following changes

- Addition of points-Seven Crystal System, Relation between lattice constant and density of material, Fractional Refractive Index Change. Applications of





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nano- materials- General and specific to computer science , computer technology.

- Sequence of Unit – 1. Crystallography 2. Laser and Fibre optics. 3. Nano Physics
- Discussion on Assessment Tools- How to take spot presentation and poster presentation effectively.
- Addition of Reference Books.
  - i. Advanced Applications of 2D Nanostructures-- Subhash Singh, KartikeyVerma, Chander Prakash
  - ii. Introduction to Carbon Nanomaterials (Current and Future Developments in Nanomaterials and Carbon Nanotubes) -- JagritiNarang (Author), C. S. Pundir (Author)

## 2. Applied Chemistry

BoS member of chemistry Mr. Prashant P. Patil, suggested following changes

- Change in practical syllabus : To remove an experiment related to Rate of Corrosion and replace it with a **Demonstration of H<sub>2</sub>-O<sub>2</sub> fuel cell**, since this experiment is related to a theory part of syllabus which is fuel cells.
- Theory syllabus was set appropriately, according to him. So, there was no change suggested by him.
- He appreciated that, the number of relevant reference and text books are available as per curriculum.
- Relevant tools for appropriate evaluation in ISE were discussed.

## 3. Applied Mathematics-I

In meeting the detailed curriculum of Applied Mathematics-I were discussed. The following suggestions are prescribed by the BoS member

- Suggested in Unit I content Rank of Matrix, Normal form and Echelon form should be written as Rank of matrix by using the normal form and echelon form.





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- Suggested reword the title of Unit no. I Matrices and solution of linear system of equation as Matrices and solution of System of Linear Equations.
- Suggested change the title of unit no. 4 Curve Fitting and statistics as Curve Fitting.
- Relevant tools for appropriate evaluation in ISE were discussed.
- The books are enough and relevant as per curriculum designed by our faculty.

#### **4. Applied Mathematics- II**

In meeting the detailed curriculum of Applied Mathematics-II were discussed. As per discussion with BoS member the curriculum designed is more relevant for both programs.

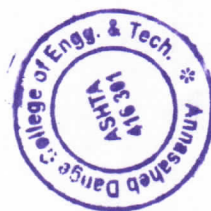
#### **5. Professional communication**

BoS member of Professional communication Dr. N.V.Nalawade suggested following changes. After detail discussion about contents of reference books was conducted. No change was suggested in list of reference books. Expert suggested to make practical sessions inclusive or flipped type classroom.

Following suggestion

- Ensure students involvement while conducting practical sessions
- Increase the no. of practical session based on avoiding common errors.
- **Redefine Course outcome** (use word business correspondence instead of office correspondence).

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**COURSE DETAILS**

Structure of Course

Class	F.Y. B. Tech, Sem.-I
Course Code and Course Title	0ITBS101, Applied Mathematics I
Prerequisite	---
Teaching Scheme: Lecture/Tutorial	03/01
Credits	04
Evaluation Scheme: ISE/ MSE/ ISEII/ ESE	10/30/10/50

**Course Objectives:**

01	To develop mathematical techniques for solving engineering problems.
02	To develop mathematical skills and enhance logical thinking power of students.
03	To increase interest towards the use of mathematics in engineering field.

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Anandrao Metkari, Dr. Dilip Unde, P.P., Chetankumar Suryawanshi, yaseen shaikh

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0ITBS106\_5 methods.

**Course Contents:**

		Hrs.
Unit1	Vector Space: Vector spaces, subspaces, linear dependence and independence of vectors, basis, dimension, four fundamental subspaces (Rank and Nullity), linear transformation	08
Unit2	Numerical Solution of Algebraic and Transcendental Equations: Introduction, Bisection method, False position method, Secant method, Newton Raphson's method.	06
Unit3	Numerical Differentiation and Integration: Numerical Differentiation - Newton's Forward Difference, Newton's Backward Difference, Central Difference (Stirling's Formula), Numerical Integration - Trapezoidal Rule, Simpson's 1/3 <sup>rd</sup> and 3/8 <sup>th</sup> Rule.	07
Unit4	Partial Differentiation and Its Applications: Function of two or more variables, Partial derivatives, Change of variables, Euler's theorem, Jacobian, Maxima and minima of functions of two variables.	08

Anandrao Metkari, Dr. Dilip Unde, P.P., yaseen shaikh, Chetankumar Suryawanshi, You

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REC

Chetankumar Suryawanshi | Aditya Mohite | PP | Dr. Dilip Unde

yaseen shaikh | PP | You

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